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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/690,245	10/21/2003	Yung-Tsun Hsieh	U 014836-1	3411

7590 03/02/2004
Ladas & Parry
26 West 61st Street
New York, NY 10023

EXAMINER

TA, THO DAC

ART UNIT	PAPER NUMBER
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2833

DATE MAILED: 03/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/690,245	HSIEH, YUNG-TSUN	
	Examiner	Art Unit	
	Tho D. Ta	2833	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 and 5-10 is/are rejected.
- 7) ☒ Claim(s) 2-4 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 7, 9, 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Baer et al. (3,226,668).

In regard to claim 1, Baer et al. discloses a connector for connecting a contact pad 100 of a flexible printed circuit board 110 against terminals 123 of an electronic component (where the other end of 120 is connected to), comprising: a body 91, which is combined with the electronic component, and on which two parallel sliding channels 93 are mounted corresponding to two sides of the terminals 123 of the electronic component; and a reinforcing plate 92, which is combined with the contact pad 100 of the flexible printed circuit board 110 so as to increase the stiffness of the contact pad 100; wherein two sides 94 of the reinforcing plate 92 cooperate with the two parallel sliding channels 93 of the body 91, thereby the contact pad 100 of the flexible printed circuit board 110 is connected against the terminals 123 of the electronic component.

In regard to claim 7, Baer et al. discloses that the reinforcing plate 92 is combined with the back of contact pad 100 of the flexible printed circuit board 110.

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In regard to claim 9, Baer et al. discloses that the terminals 123 of the electronic component are elastic terminals.

In regard to claim 10, Baer et al. discloses that the reinforcing plate 92 is a hardened resin with which the back of the contact pad 100 is coated (column 3, lines 9-12).

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 5, 6, 8, 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Koegel et al. (6,595,796).

In regard to claim 1, Koegel et al. discloses a connector for connecting a contact pad 12 of a flexible printed circuit board 10 against terminals 30 of an electronic component 28, comprising: a body 26, which is combined with the electronic component 28, and on which two parallel sliding channels 32 are mounted corresponding to two sides of the terminals 30 of the electronic component 28; and a reinforcing plate 40, which is combined with the contact pad 12 of the flexible printed circuit board 10 so as to increase the stiffness of the contact pad 12; wherein two sides 54 of the reinforcing

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plate 40 cooperate with the two parallel sliding channels 32 of the body 26, thereby the contact pad 12 of the flexible printed circuit board 10 is connected against the terminals 30 of the electronic component 28.

In regard to claim 5, Koegel et al. discloses that the body 26 and the electronic component 28 are formed in a piece.

In regard to claim 6, Koegel et al. discloses that a positioning protrusion 34 is mounted at an appropriate location of the surface of each sliding channel 32 of the body 26, and an indentation 56 mounted at the corresponding location of each of the two sides of the reinforcing plate 40, and the positioning protrusions 34 are locked into the indentations respectively so as to have a firm combination of the body 26 with the reinforcing plate 40.

In regard to claim 8, Koegel et al. discloses that the flexible printed circuit board 10 is formed as a shape of stairs (see figures 1 and 8) so as to match up to the height of the body 26.

In regard to claim 10, Koegel et al. discloses that the reinforcing plate 40 is a hardened resin (column 3, lines 14-16) with which the back of the contact pad 12 is coated (column 2, lines 41-43).

Allowable Subject Matter

5. Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter: In regard to claim 2, the prior art fails to provide, teach or suggest the body has a container for receiving the electronic component, and the terminals protrude from the container when the electronic component is received in the container; and in combination with other limitations in claim 1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho D. Ta whose telephone number is (571) 272-2014. The examiner can normally be reached on M-F (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (571) 272-2800 ext 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



THO D. TA
PRIMARY EXAMINER